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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (See instructions on back of form) APR 2 9 2003 PATENT & TRADEMARK OFFICE		Application Number	10/714,395
		Filing Date	November 17, 2003
		First Named Inventor	Shigenori HASASHI
		Group Art Unit	1773
		Examiner Name	Stevan A. Resan
Sheet 1 of 3	Attorney Docket Number	0756-7222	

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
SR		4,717,622		Kurkawa et al.	01/05/88	
		4,774,130		Endo et al.	09/27/88	
		4,840,844		Futamoto et al.	06/20/89	
		4,880,687		Yokoyama et al.	11/14/89	
		4,892,789		Nakayama et al.	01/09/90	
		5,266,409		Schmidt et al.	11/30/93	
		5,275,850		Kitoh et al.	01/04/94	
		4,647,494		Meyerson et al.	03/03/97	
		5,637,373		Hayashi	06/10/97	
		5,466,431		Dorfman et al.	11/14/95	
		5,500,296		Inoue et al.	03/19/96	
		4,804,590		Nakamura et al.	02/14/89	
		5,110,676		Murai et al.	05/05/92	
		4,996,079		Itoh	02/26/91	

FOREIGN PATENT DOCUMENTS							
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
SR		JP	58-042472			03/11/83	Full
		JP	01-226711			09/11/89	Full
		JP	02-083816			03/23/90	Full
		JP	02-125877			05/14/90	Full
		JP	62-241124			10/21/87	Abst.
		JP	63-121116			05/25/88	Full
		JP	03-019120			01/28/91	Full
		JP	03-256220			11/14/91	Abst.
		JP	04-134623			05/08/92	Abst.
		JP	04-313812			11/05/92	Full
		JP	61-220119			09/30/86	Full
		JP	64-076422			03/22/89	Full
		JP	01-096820			04/14/89	Full

Examiner Signature		Date Considered	3-9-2005
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				Filing Date	November 17, 2003
				First Named Inventor	Shigenori HASASHI
				Group Art Unit	1773
				Examiner Name	Stevan A. Resan
Sheet	2	of	3	Attorney Docket Number	0756-7222

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		Number	Kind Code <sup>2</sup> (if known)			
SW		5,989,672		Hayashi	11/23/99	
		5,364,690		Takahashi et al.	11/15/94	
		5,637,393		Ueda et al.	06/10/97	
		5,853,871		Kitaori et al.	12/29/98	
		5,945,219		Yamada et al.	08/31/99	
		4,778,582		Howard	10/18/88	
		4,869,797		Nagao et al.	09/26/89	
		4,932,331		Kurihara et al.	06/12/90	
		5,015,494		Yamazaki	05/14/91	
		5,182,132		Murai et al.	01/26/93	
		5,227,211		Eltoukhy et al.	07/13/93	
		4,645,977		Kurokawa et al.	02/24/87	

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SW		JP	01-154314			06/16/89	Full
		JP	02-149924			06/08/90	Full
		JP	02-208827			08/20/90	Full
		JP	03-76023			04/02/91	Full
		JP	03-176814			07/31/91	Full
		EP	0 454 296			10/30/91	Eng.
		JP	02-027517			01/30/90	Abst.
		JP	03-296919			12/27/91	Abst.
		JP	04-010214			01/14/92	Abst.
		JP	60-023406			02/06/85	Abst.
		JP	59-119536			07/10/84	Abst.
		JP	62-058417			03/14/87	Abst.
		JP	01-258220			10/16/89	Abst.
		JP	01-320622			12/26/89	Abst.
		JP	04-040626			02/12/92	Abst.

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SA		6,194,047		Hayashi	02/27/01	}
		6,258,434		Hayashi	07/10/01	
		6,623,836		Hayashi	09/23/03	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
SA		JP	61-136678		}	06/24/86	}	Abst.
		JP	01-189019			07/28/89		Abst.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>3</sup>

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